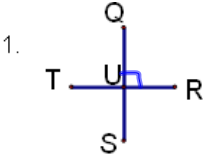
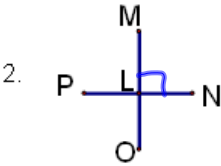


Given: $\overline{AB} \perp \overline{CD}$
Conclusion: $\angle AED$ is a right \angle
Reason: Def. of \perp lines

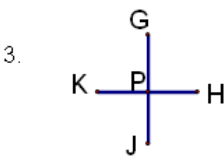


Given: $\overline{QS} \perp \overline{TR}$
Conclusion: $\angle QUR$ is rt. \angle
Reason: Def. of \perp lines



Given: $\overline{MO} \perp \overline{PN}$
Conclusion: $\angle MLN$ is a right \angle
Reason: def of \perp lines

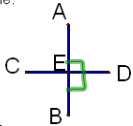
Do 3-6



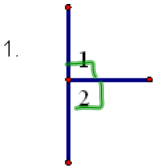
Given: $\overline{KH} \perp \overline{JG}$
Conclusion: _____
Reason: _____

Right angles are \cong

Example:

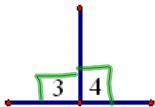


Given: $\angle AED$ is a right \angle and $\angle DEB$ is a right \angle
Conclusion: $\angle AED \cong \angle DEB$
Reason: right angles are \cong



Given: $\angle 1$ is a right \angle :
 $\angle 2$ is a right \angle
Conclusion:
 $\angle 1 \cong \angle 2$
Reason: all rt \angle s are \cong

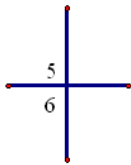
2.



Given: $\angle 3$ is a right \angle :
 $\angle 4$ is a right \angle
Conclusion:
 $\angle 3 \cong \angle 4$
Reason: rt \angle s are \cong

Do
3-6

3.

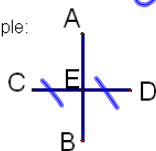


Given: $\angle 5$ is a right \angle :
 $\angle 6$ is a right \angle
Conclusion:
Reason: _____

Definition of segment bisector

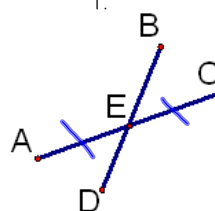
(same midpt's)

Example:



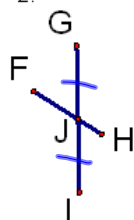
Given: \overline{AB} bisects \overline{CD}
 Conclusion: $\overline{CE} \cong \overline{ED}$
 Reason: def. of segment bisector

1.



Given: \overline{BD} bisects \overline{AC}
 Conclusion: $\overline{AE} \cong \overline{EC}$
 Reason: def. of segment bisector

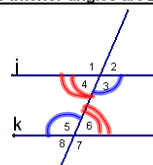
2.



Given: \overline{FH} bisects \overline{GI}
 Conclusion: $\overline{GJ} \cong \overline{JI}$
 Reason: _____

If \parallel , alternate interior angles are \cong

Example:

Given: $j \parallel k$

Conclusion: $\angle 3 \cong \angle 5$
 Reason: If \parallel , alt-int. \angle s are \cong

Conclusion: $\angle 4 \cong \angle 6$
 Reason: If \parallel , alt-int. \angle s are \cong

1.

Given: $\overline{AZ} \parallel \overline{XY}$
Conclusion#1: $\angle 1 \cong \angle 4$
Conclusion#2: $\angle 2 \cong \angle 3$
Reason: If \parallel , alt int $\angle \cong$

2.

Given: $\overline{AB} \parallel \overline{CD}$
Conclusion#1: $\angle 1 \cong \angle 3$
Reason: If \parallel , alt int $\angle \cong$

3.

Given: $\overline{EX} \parallel \overline{AM}$, $\overline{AX} \parallel \overline{EM}$
Conclusion#1: $\angle 5 \cong \angle 7$
Conclusion#2: $\angle 6 \cong \angle 4$
Reason: If \parallel , alt int $\angle \cong$

1.

Given: $\overline{AB} \parallel \overline{CD}$
Conclusion#1: $\angle 1 \cong \angle 3$ Reason: If \parallel , alt int $\angle \cong$
Conclusion#2: $\overline{AD} \cong \overline{BC}$ Reason: Reflexive

HW 2-8
2-4, 6